

ABSTRACT

A method of preparing an electrically conductive polymer blend, and an electrically conductive polymer blend includes steps of selecting at least two polymeric materials that are substantially immiscible together, mixing the polymeric materials into a blend so that at least one of the polymeric materials forms a continuous three-dimensional phase through the entire blend, and mixing an electrically conductive filler into the blend. The difference in surface tension between the polymeric material forming the continuous three-dimensional phase and the other polymeric materials forming the blend is at least 2 mN/m.